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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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26119	7590	08/13/2004		
KLARQUIST SPARKMAN LLP 121 S.W. SALMON STREET SUITE 1600 PORTLAND, OR 97204			EXAMINER WOOD, WILLIAM H	
			ART UNIT 2124	PAPER NUMBER

DATE MAILED: 08/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/611,402	Applicant(s) RINGSETH ET AL.	
	Examiner William H. Wood	Art Unit 2124	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 February 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>02/02/04</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claims 1-30 are pending and have been examined.

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 02 February 2004 was considered by the examiner.

Claim Rejections - 35 USC § 112

2. Claims 26-30 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. New subject matter is the use of "different call signature" in relation to bound methods. This is interpreted as a "dispatch identifier" for purposes of rejection.

3. Claims 26-30 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Non-enabled subject matter is the use of "different call signature" in relation to bound methods. This is interpreted as a "dispatch identifier" for purposes of rejection.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1 and 3-4, 6-18 and 23-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over "**C++ Builder 5 Features & Benefits**" by Jurgen Fesslmeier in view of **Gardner** et al. (USPN 6,701,352).

Claim 1

C++ Builder disclosed in a computer system, a method of generating a interface implementation (*page 9, box "IDL Integration" and page 11, box "Integrated Type Library Creation Reduces the Number of Programming Tasks"*), the method comprising:

- ♦ receiving definition information (*page 9, box "IDL Integration", IDL is definition information*) interface features of a interface, interface including plural methods and one or more other methods (*page 9, box "IDL Implementation"*);
- ♦ receiving programming language code for the one or more other methods, each of the one or more other methods having a name (*page 9, box "IDL Integration", C++ Implementation*);
- ♦ based upon the definition information and the programming language code, generating a interface implementation for operating the one or more other methods (**C++ Builder environment has IDL and C++ code**), interface implementation including:

- ♦ executable code for the one or more other methods (**C++**

***Builder** environment has IDL and C++ code);*

C++ Builder did not explicitly state dispatch interface from the definition information. **Gardner** demonstrated that it was known at the time of invention to implement dispatch interfaces (column 7, line 57 to column 8, line 24); including executable code for mapping identifiers (column 8, lines 1-15); and executable code for calling the other methods (column 8, lines 1-15). It would have been obvious to one of ordinary skill in the art at the time of invention to implement the automated system of **C++ Builder** with late binding as found in **Gardner's** teaching. This implementation would have been obvious because one of ordinary skill in the art would be motivated to provide object interface for as many environments as possible in order to facilitate greater acceptance and use in the marketplace. Furthermore, both reference involve CORBA object linking.

Claim 3

C++ Builder and **Gardner** disclosed the method of claim 1 wherein a file includes the programming language code and a statement for importing the definition information (**C++ Builder**: page 11, box "Integrated Type Library Creation Reduces the Number of Programming Tasks").

Claim 4

C++ Builder and **Gardner** disclosed the method of claim 1 wherein the generating comprises: in the second dispatch method implementation code,

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creating code for handling the arguments of one of the one or more other methods with a generic data structure (**Gardner**: column 8, lines 1-15).

Claim 6

C++ Builder and **Gardner** did not explicitly state the method of claim 1 wherein the dispatch interface implementation further includes:

- ♦ executable code for a third dispatch method, the third dispatch method for determining the availability of type information for the dispatch interface (**C++ Builder**: page 11, box "Integrated Type Library Creation Reduces the Number of Programming Tasks"; **Gardner**: column 8, lines 1-15); and
- ♦ executable code for a fourth dispatch method, the fourth dispatch method for retrieving available type information for the dispatch interface (**Gardner**: column 8, lines 1-15).

Claim 7

C++ Builder disclosed the limitation

- ♦ A computer readable medium having stored thereon a computer executable compiler system that generates a implementation from definition information and programming language code (page 9, box "IDL Integration"), the compiler system comprising:
 - ♦ a front end module that receives definition information and programming language code, the definition information defining

interface features of a interface, the programming language code for implementing one or more methods (page 9, box "IDL Integration", IDL is definition information and C++ Implementation);

- ♦ *a converter module that identifies relations between the definition information and the one or more methods (**C++ Builder** environment has IDL and C++ code, which are automatically correlated); and*
- ♦ *a back end module that generates a interface implementation based upon the relations, the interface implementation for operating the one or more methods (page 9, box "IDL Integration" and page 11, box "Integrated Type Library Creation Reduces the Number of Programming Tasks").*

C++ Builder did not explicitly state late bound. **Gardner** demonstrated that it was known at the time of invention to utilize definition languages to implement dynamic/late binding, dispatchable (column 7, line 57 to column 8, line 24). It would have been obvious to one of ordinary skill in the art at the time of invention to implement the automated system of **C++ Builder** with late binding as found in **Gardner's** teaching. This implementation would have been obvious because one of ordinary skill in the art would be motivated to provide object interface for as many environments as possible in order to facilitate greater acceptance and use in the marketplace. Furthermore, both reference involve CORBA object linking.

Claim 8

C++ Builder and **Gardner** disclosed the compiler system of claim 7 wherein the converter module identifies one or more relations, each relation between one of the one or more late bound methods and a corresponding identifier, and wherein based upon the one or more relations the back end module generates for each of the one or more late bound methods code mapping the name of the late bound method to the corresponding identifier for the late bound method (**Gardner**: column 8, lines 9-11).

Claim 9

C++ Builder and **Gardner** disclosed the compiler system of claim 7 wherein the converter module identifies one or more relations, each relation between one of the one or more late bound methods and a corresponding identifier, and wherein based upon the one or more relations the back end module generates for each of the one or more late bound methods code for calling the late bound method upon receipt of the corresponding identifier for the late bound method (**Gardner**: column 8, lines 7-11).

Claim 10

C++ Builder and **Gardner** disclosed the compiler system of claim 7 wherein the converter module identifies one or more relations, each relation between type information and an argument of one of the one or more late bound methods, and wherein based upon the one or more relations the back end module generates

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code for handling the arguments of the late bound method with a generic data structure (*Gardner: column 8, lines 7-11*).

Claim 11

C++ Builder and **Gardner** disclosed the compiler system of claim 7 wherein the converter module identifies a relation between a property indicator and one of the one or more late bound methods, and wherein based upon the relation the back end module generates code for retrieving or setting a corresponding property through the late bound method (*Gardner: column 8, lines 1-15; dispatch*).

Claim 12

C++ Builder and **Gardner** disclosed the compiler system of claim 7 wherein the late binding interface implementation is part of a combined early binding and late binding interface implementation, and wherein the back end module further generates an early binding interface implementation for the one or more late bound methods (*combination provides static with IDL and dynamic with ODL*).

Claim 13

C++ Builder disclosed a computer readable medium having stored thereon computer executable instructions for performing a method of automatically generating a interface implementation (*page 9, box "IDL Integration"*), the method comprising:

- ♦ receiving programming language code for one or more methods of a late binding interface (*page 9, box "IDL Integration", C++ implementation*);
- ♦ receiving definition information that defines interface features of the late binding interface (*page 9, box "IDL Integration", IDL is definition information*);
- ♦ based upon the programming language code and the definition information (*C++ **Builder** environment has IDL and C++ code*), generating a interface implementation for operating the one or more methods, the interface implementation including one or more methods, a first method for calling the one or more methods responsive to client requests (*page 9, box "IDL Integration" and page 11, box "Integrated Type Library Creation Reduces the Number of Programming Tasks"*).

C++ Builder did not explicitly state late bound. **Gardner** demonstrated that it was known at the time of invention to utilize definition languages to implement dynamic/late binding, dispatchable (column 7, line 57 to column 8, line 24). It would have been obvious to one of ordinary skill in the art at the time of invention to implement the automated system of **C++ Builder** with late binding as found in **Gardner's** teaching. This implementation would have been obvious because one of ordinary skill in the art would be motivated to provide object interface for as many environments as possible in order to facilitate greater acceptance and

use in the marketplace. Furthermore, both reference involve CORBA object linking.

Claim 14

C++ Builder and **Gardner** disclosed the computer readable medium of claim 13 wherein the first late binding method lacks a call to a separate late binding interface implementation (**Gardner**: the rejection of claim 15 is incorporated herein, for the first late bound method).

Claim 15

C++ Builder and **Gardner** disclosed the computer readable medium of claim 13 *wherein a second late binding method maps names of the one or more late bound methods to corresponding identifiers for run time binding, and wherein the second late binding method lacks a call to a separate late binding interface implementation.* **Gardner** demonstrated that it was known at the time of invention to utilize a dispatch table, which is the functionality described above (column 8, lines 1-15).

Claim 16

C++ Builder and **Gardner** disclosed the computer readable medium of claim 13 *wherein the late binding interface implementation includes a second late binding method for determining the availability of type information, and wherein the late binding interface implementation further includes a third late binding method for*

retrieving available type information. However, this limitation is found in the same manner as claim 15, the rejection being incorporated herein using **Gardner**.

Claim 18

C++ Builder and **Gardner** disclosed the computer readable medium of claim 13 *wherein the generating comprises: identifying type information for an argument of a first late bound method; for the implementation for the first late binding method, generating code for handling the argument with a generic data structure.*

However, this limitation is found in the same manner as claim 15, the rejection being incorporated herein using **Gardner**.

Claim 23

C++ Builder disclosed in a computer system, a method of automatically generating client side call site code (*page 9, box "IDL Integration"*), the method comprising:

- ♦ receiving definition information for interface features of a interface (*page 9, box "IDL Integration", IDL is definition information*);
- ♦ receiving programming language code for calling a method of the interface (*page 9, box "IDL Integration", C++ implementation*);
- ♦ based upon information for one or more input arguments of the method, generating code (*C++ Builder environment has IDL and C++ code; page 9, box "IDL Integration" and page 11, box*

*"Integrated Type Library Creation Reduces the Number of
Programming Tasks")*

C++ Builder did not explicitly state type information and late bound and code for packing the one or more arguments into a generic argument data structure; and generating code for calling the late bound method through an invocation method of the late binding interface, wherein the calling includes passing the generic argument data structure to the invocation method. **Gardner** demonstrated that it was known at the time of invention to utilize late bound interfaces and methods (column 7, line 57 to column 8, line 24); to utilize packing and unpacking from a data structure (column 8, lines 1-15); and type information (column 8, lines 7-15). It would have been obvious to one of ordinary skill in the art at the time of invention to implement **C++ Builder's** system of programming using integrated IDL with the ability to create interfaces for late bound situations; packing and unpacking; and type information as found in **Gardner's** teaching. This implementation would have been obvious because one of ordinary skill in the art would be motivated to develop interfaces for as many situations as possible and thus improve competitiveness and user convenience, including late bound, especially when those interfaces are needed for so many applications.

Claim 24

C++ Builder and **Gardner** disclosed the method of claim 23 further comprising:
based upon type information for a return value of the late bound method,

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generating code for unpacking the return value from a generic return value data structure (**Gardner**: column 8, lines 1-15).

Claim 25

C++ Builder and **Gardner** disclosed the method of claim 23 further comprising: generating code for calling a mapping method of the late binding interface, the mapping method associating a late bound method name with an identifier (**Gardner**: column 8, lines 1-15).

Claim 26

C++ Builder and **Gardner** disclosed the method of claim 1 wherein the second dispatch method has a call signature different from each of the one or more other methods (**Gardner**: column 8, lines 7-11).

Claim 27

C++ Builder and **Gardner** disclosed the compiler system of claim 7 wherein the late binding interface implementation includes one or more late binding methods each having a call signature different from the one or more late bound methods (**Gardner**: column 8, lines 7-11).

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Claim 28

C++ Builder and **Gardner** disclosed the computer readable medium of claim 13 wherein the first late binding method has a call signature different from each of the one or more late bound methods (***Gardner**: column 8, lines 7-11*).

Claim 29

C++ Builder, **Gardner** and **Jacobson** disclosed the method of claim 20 wherein the late binding method has a call signature different from each of the one or more dual bound methods (***Gardner**: column 8, lines 7-11*).

Claim 30

C++ Builder and **Gardner** disclosed the method of claim 23 wherein the invocation method has a call signature different from the late bound method (***Gardner**: column 8, lines 7-11*).

6. Claims 2 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over “**C++ Builder 5 Features & Benefits**” by Jurgen Fesslermeier in view of **Gardner et al.** (USPN 6,701,352) as applied to claim 1 and in further view of **Yellin et al.** (USPN 5,946,489).

Claim 2

C++ Builder and **Gardner** did not explicitly state the limitation *wherein the definition information is embedded in a file for the programming language code*.

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Yellin demonstrated that it was known at the time of invention to place code of one type within a file of a differing type of code (column 8, lines 21-26; inlining). It would have been obvious to one of ordinary skill in the art at the time of invention to implement the compiling system of **C++ Builder** and **Gardner** with inlining (of IDL) as suggested by **Yellin's** teaching. This implementation would have been obvious because one of ordinary skill in the art would be motivated to provide as much information in a single and thus readily available source. Furthermore, **C++ Builder** implied the definition information could be embedded in the programming language code file (**C++ Builder**: page 11, box "Integrated Type Library Creation Reduces the Number of Programming Tasks").

Claim 17

C++ Builder and **Gardner** did not explicitly state the limitation *wherein the definition information is embedded in a file for the programming language code*. **Yellin** demonstrated that it was known at the time of invention to place code of one type within a file of a differing type of code (column 8, lines 21-26; inlining). It would have been obvious to one of ordinary skill in the art at the time of invention to implement the compiling system of **C++ Builder** and **Gardner** with inlining (of IDL) as suggested by **Yellin's** teaching. This implementation would have been obvious because one of ordinary skill in the art would be motivated to provide as much information in a single and thus readily available source.

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7. Claim 5 and 19-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over “**C++ Builder 5 Features & Benefits**” by Jurgen Fesslmeier in view of **Gardner** et al. (USPN 6,701,352) as applied to claim 1 and in further view of **Jacobson** et al. (USPN 6,389,491).

Claim 5

C++ Builder and **Gardner** did not explicitly state the method of claim 1 wherein the dispatch interface implementation is part of a dual interface implementation, the method further comprising: generating executable code for directly invoking the one or more other methods through a vtable mechanism at run time.

Jacobson demonstrated that it was known at the time of invention to utilize dual interface working together (column 4, line 10 to column 5, line 12) including vtable mechanism. It would have been obvious to one of ordinary skill in the art at the time of invention to implement the interface generation system of **C++ Builder** and **Gardner** with dual interfaces as found in **Jacobson's** teaching. This implementation would have been obvious because one of ordinary skill in the art would be motivated to provide a system capable of communicating with as many environments as possible, furthermore **Jacobson** is implementing COM, which is known to **C++ Builder**.

Claim 19

C++ Builder and **Gardner** did not explicitly state *wherein the late binding interface implementation adjoins an early binding interface implementation, the*

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*method further comprising: generating the early binding interface implementation for directly invoking the one or more late bound methods. **Jacobson***

demonstrated that it was known at the time of invention to utilize dual interface working together (column 4, line 10 to column 5, line 12). It would have been obvious to one of ordinary skill in the art at the time of invention to implement the interface generation system of **C++ Builder** and **Gardner** with dual interfaces as found in **Jacobson's** teaching. This implementation would have been obvious because one of ordinary skill in the art would be motivated to provide a system capable of communicating with as many environments as possible, furthermore **Jacobson** is implementing COM, which is known to **C++ Builder**.

Claim 20

C++ Builder disclosed the limitation:

- ♦ *In a computer system, a method of automatically generating an interface implementation (page 9, box "IDL Integration"), the method comprising:*
 - ♦ *receiving programming language code; for one or more methods of an interface (page 9, box "IDL Integration", C++ implementation);*
 - ♦ *receiving definition information that defines interface features of the interface (page 9, box "IDL Integration", IDL is definition information);*
 - ♦ *based upon the programming language code and the definition information, generating an interface (**C++ Builder** environment has*

IDL and C++ code; page 9, box "IDL Integration" and page 11, box "Integrated Type Library Creation Reduces the Number of Programming Tasks"),

C++ Builder did not explicitly state late bound. **Gardner** demonstrated that it was known at the time of invention to utilize definition languages to implement dynamic/late binding, dispatchable (column 7, line 57 to column 8, line 24). It would have been obvious to one of ordinary skill in the art at the time of invention to implement the automated system of **C++ Builder** with late binding as found in **Gardner's** teaching. This implementation would have been obvious because one of ordinary skill in the art would be motivated to provide object interface for as many environments as possible in order to facilitate greater acceptance and use in the marketplace. Furthermore, both reference involve CORBA object linking.

Jacobson demonstrated that it was known at the time of invention to utilize dual interface working together (column 4, line 10 to column 5, line 12). It would have been obvious to one of ordinary skill in the art at the time of invention to implement the interface generation system of **C++ Builder** and **Gardner** with dual interfaces as found in **Jacobson's** teaching. This implementation would have been obvious because one of ordinary skill in the art would be motivated to provide a system capable of communicating with as many environments as possible, furthermore **Jacobson** is implementing COM, which is known to **C++ Builder**.

Claim 21

C++ Builder, Gardner and Jacobson disclosed the method of claim 20 wherein the late binding mechanism maps names of the one or more methods to corresponding identifiers at run time (*column 8, lines 7-11*).

Claim 22

C++ Builder, Gardner and Jacobson disclosed the method of claim 20 wherein the generating comprises: identifying type information for an argument of a first method; for the late binding mechanism, creating code for handling the argument with a generic data structure (*column 8, lines 7-11*).

Response to Arguments

8. Applicant's arguments with respect to claims 1-25 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is

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filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Correspondence Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William H. Wood whose telephone number is (703)305-3305. The examiner can normally be reached 7:30am - 5:00pm Monday thru Thursday and 7:30am - 4:00pm every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (703)305-9662. The fax phone numbers for the organization where this application or proceeding is assigned are (703)746-7239 for regular communications and (703)746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-3900.

William H. Wood
August 5, 2004



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